

December 16, 2013

Ex Parte

Marlene H. Dortch, Secretary Federal Communications Commission 445 12th Street SW Washington, DC 20554

Re:

GN Docket No. 12-268

Dear Ms. Dortch:

On December 12, 2013, in a series of meetings, Alan Norman and Larry Alder of Google Inc. ("Google"), Chris Szymanski and Ron Porat of Broadcom Corporation ("Broadcom"), and I discussed the above-captioned proceeding with FCC staff. We met with: Julius Knapp, Walter Johnston, Geraldine Matise, Matthew Hussey, Bob Weller, Ira Keltz, Hugh Van Tuyl, Paul Murray, Alan Stillwell, and Rashmi Doshi of the Office of Engineering and Technology; Roger Sherman, Madelaine Maior, Chris Helzer, Blaise Scinto, Jessica Almond, and John Leibovitz of the Wireless Telecommunications Bureau; and Gary Epstein and Edward Smith of the Incentive Auction Task Force.

We discussed the use of unlicensed technologies in: (1) the guard band and duplex gap found in a "51-down" band plan; (2) Channel 37; and (3) the two channels currently reserved for wireless microphones. We described technical work that Google and Broadcom could perform to assist the Commission. Specifically, we inquired whether an analysis of television power levels received in different locations would assist the Commission as it explored the need for a guard band between broadcast and LTE services. We distributed the attached images as examples of how we could display such data – but these images are not final products showing the values Google and Broadcom will enter into the record.

Pursuant to the Commission's rules, a copy of this notice is being filed electronically in the above-referenced docket. If you require any additional information please contact the undersigned.

Sincerel

Paul Margie

Counsel to Google Inc.

cc: meeting participants



Guard Band Maps

for Major Metros



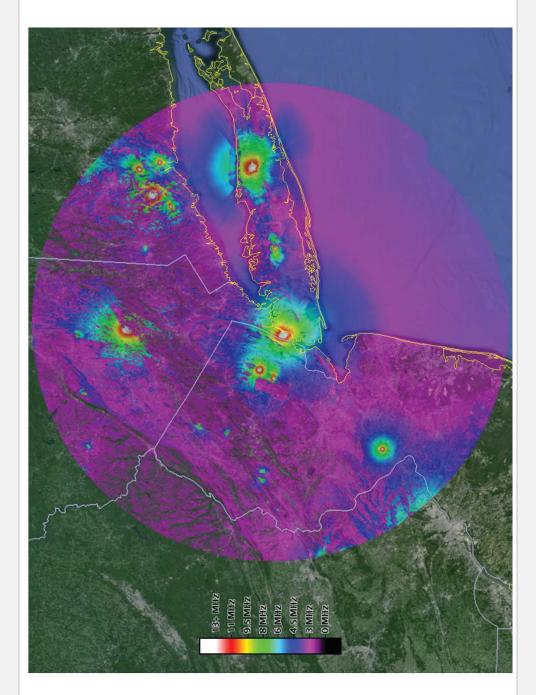


3GPP LTE Sensitivity Levels

Interfering Signal Power(dBm)	Required Guard Band (MHz)
0	15
-10	11
-20	00
-30	4.5
-40	3
-50	0



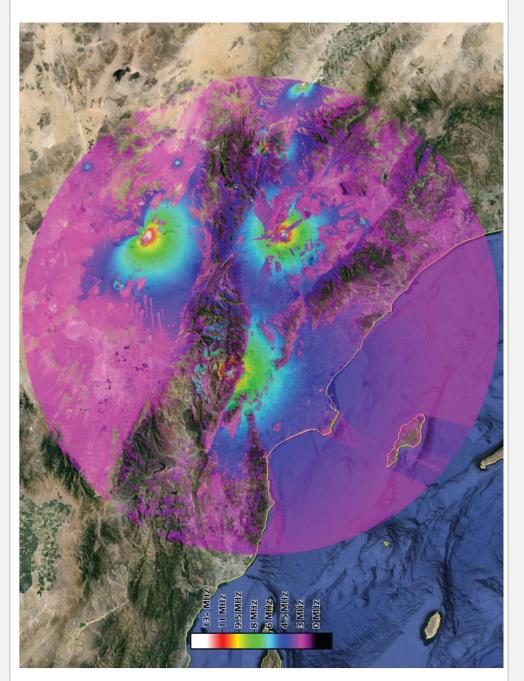
New York



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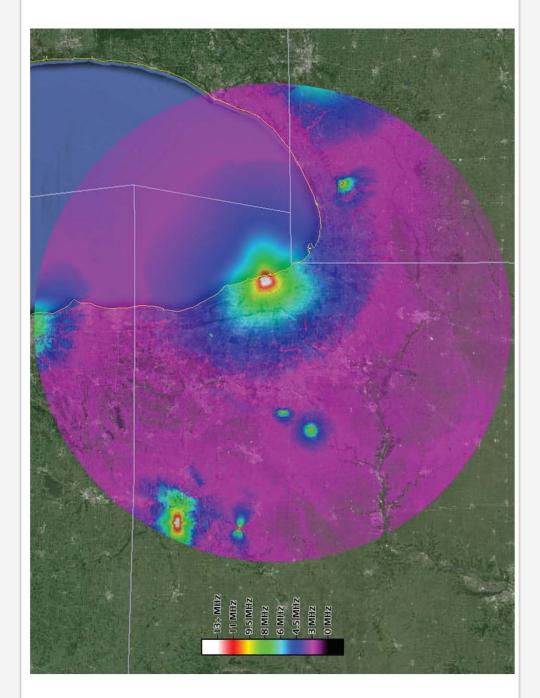


Los Angeles



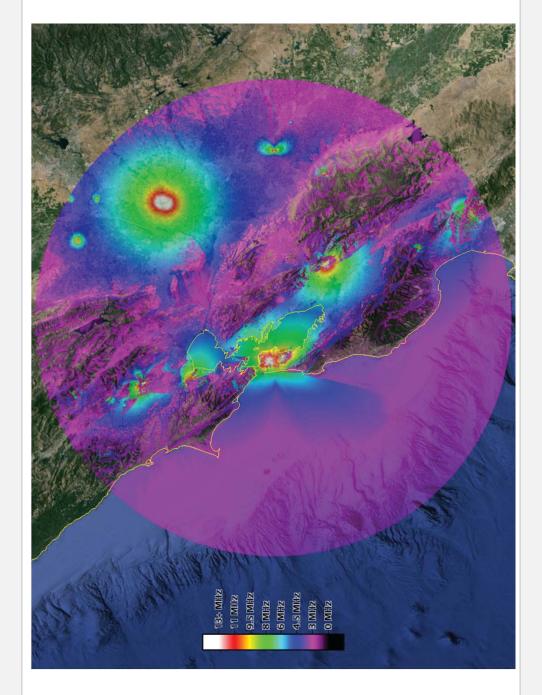
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Chicago





San Francisco